





# **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2002/G021	FOR FURTHER ACTION	ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
International application No.	International filing date (day/m	onth/year) Priority date	(day/month/year)					
PCT/EP2003/012210	03 November 2003 (03.	1.2003) 05 Novem	nber 2002 (05.11.2002)					
International Patent Classification (IPC) or national classification and IPC B32B 7/12								
Applicant TICONA GMBH								
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>								
2. This REPORT consists of a total of 5 sheets, including this cover sheet.								
amended and are the basis for	ed by ANNEXES, i.e., sheets of this report and/or sheets contain Administrative Instructions unde	ng rectifications made before	or drawings which have been this Authority (see Rule					
These annexes consist of a total of sheets.								
3. This report contains indications relat	ing to the following items:							
I Basis of the report								
II Priority	II Priority							
III Non-establishment o	f opinion with regard to novelty,	nventive step and industrial	applicability					
IV Lack of unity of inve	ntion							
V Reasoned statement citations and explana	under Article 35(2) with regard t tions supporting such statement	novelty, inventive step or i	ndustrial applicability;					
VI Certain documents c	ted							
VII Certain defects in the	international application							
VIII Certain observations on the international application								
Date of submission of the demand	Date of c	ompletion of this report						
03 June 2004 (03.06.2004)		20 January 2005 (20.01.2005)						
Name and mailing address of the IPEA/EP		Authorized officer						
Facsimile No.		e No.						

Form PCT/IPEA/409 (cover sheet) (July 1998)

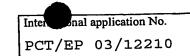
# International application No.

PCT/EP2003/012210

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I. Basis of the report								
1. Wit	th regar	to the elements of the international application:*						
	the i	nternational application as originally filed						
$\overline{\nabla}$	the	lescription:						
_	- page	s 1-26	, as originally filed					
	pag	es	, filed with the demand					
	pag	filed with the letter of						
$\nabla$	1 the	claims:						
<u> </u>	pag		, as originally filed					
	pag	, as amended (together with any statement under Article 19						
	pag	es	, filed with the demand					
	pag	es 1-21 , filed with the letter of	23 November 2004 (23.11.2004)					
· —	٦	drawings:						
ᆫ	-	<b>a</b> s	, as originally filed					
	pag pag		, filed with the demand					
	pag	es, filed with the letter of						
L		equence listing part of the description:	as originally filed					
	pag	es	filed with the demand					
	pa	Ct. 1 with the letter of	, <u></u> ,					
	pa							
1 41.	ne interr These ele	ments were available of farmened to any	which is:					
		alanguage of a translation furnished for the purposes of international search (under I	Rule 23.1(b)).					
<b> </b> [	th	the language of publication of the international application (under Rule 48.3(b)).						
	01	e language of the translation furnished for the purposes of international prelimina 55.3).						
3. N	With re orelimin	gard to any nucleotide and/or amino acid sequence disclosed in the intermary examination was carried out on the basis of the sequence listing:	ational application, the international					
	co	ntained in the international application in written form.						
1	fi	ed together with the international application in computer readable form.						
	fı	rnished subsequently to this Authority in written form.						
	fi	rnished subsequently to this Authority in computer readable form.						
[	iı	ternational application as filed has been furnished.						
		the statement that the information recorded in computer readable form is identicen furnished.	al to the written sequence listing has					
4.	П	he amendments have resulted in the cancellation of:						
		the description, pages						
	Ī	the claims, Nos.						
1	Ī	the drawings, sheets/fig						
5.	☐ T	nis report has been established as if (some of) the amendments had not been made, eyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	since they have been considered to go					
	Replace in this	ment sheets which have been furnished to the receiving Office in response to an inverse of the contract of the	vitation under Article 14 are referred to not contain amendments (Rule 70.16					
**	Any rep	lacement sheet containing such amendments must be referred to under item 1 and at	mesea to this report.					

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YES

NO

1-21

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement					
	Novelty (N)	Claims	9, 20	YES		
	Claims	1-8, 10-14, 16-19, 21	NO			
Inventive step (IS)	Claims	15	YES			
	Claims	1-14, 16-21	NO			

Citations and explanations 2.

Industrial applicability (IA)

Reference is made to the following documents:

Claims

Claims

- PATENT ABSTRACTS OF JAPAN Vol. 1999, No. 09, 30 July D1: 1999 (1999-07-30) & JP 11 091040 A (POLYPLASTICS CO) 6 April 1999 (1999-04-06)
- MatWeb.com, The Online Materials Database: Overview D3: EVA, Adhesive/sealant Grade (http://www.matweb.com); Copy joined.

#### Amendments Α

The amendments submitted by the applicant with the letter of 23 November 2004 are allowed and in particular satisfy PCT Article 34(2)(b).

#### Novelty В

Document D1 discloses a co-extruded or dry-laminated laminate for the production of, inter alia, containers and pipes [0028-0033] and having the following structure: polyacetal (POM) // adhesion promoter // HDPE (example [0035-0039]). The adhesion promoter can be, for example, a copolymer consisting of an alpha-olefin and (meth)acrylic acid (alkylester), vinyl acetate, maleic acid (anhydride)

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or itaconic acid (anhydride) etc., or a modified alphaolefin (for example maleic acid anhydride-modified polyethylene) ([0017-22], [0035]).

In document D1 the composite adhesion is given in N/15mm (Table 1) and not, as in the application, in N/mm². Consequently, no direct comparison is possible. However, since in document D1 composite adhesion plays a decisive role [0004] and the structure is encompassed by the subject matter of the materials listed in claim 1, the Preliminary Examining Authority considers that the examples given in document D1 are prejudicial to the novelty of the subject matter of claim 1 of the present application (PCT Examination Guidelines 2004, paragraph 12.04).

Ethylene vinyl acetate copolymers usually have Vicat softening points above 50°C (see, for example, document D3).

The polyacetal in document **D1** contains in addition a polyalkylene glycol modified with amino groups [abstract]. However, the presence of this component is not excluded by claim 1 of the present application.

Consequently, the subject matter of claims 1-8, 10-14, 16-19 and 21 is not novel (PCT Article 33(2)).

### C Inventive step

The features of claims 9 and 20 concern only one of several obvious possibilities. In the view of the examiner, the application did not demonstrate that these features solve a technical problem in an inventive (surprising) manner.

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The subject matter of claims 9 and 20 is therefore not inventive within the meaning of PCT Article 33(3).

## D Industrial applicability

The subject matter of claims 1--23 meets the requirements for industrial applicability of PCT Article 33(4).